

Under the Paperwork Reduction Project 07-14-95, no persons are required to respond to a collection of information unless it contains a valid OMB control number

<b>Substitute for Form 1449/A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/621,113
		Filing Date	July 16, 2003
		First Named Inventor	J. David Lambeth et al.
		Group Art Unit	1614-1652
Examiner Name	Unknown T. Saidha	Attorney Docket Number	43150/287577 (05501-0202)
Sheet	1	of	2

**U.S. PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Kind Code <sup>2</sup> (if known)	Number			
JDS	1.		6,620,603	LAMBETH et al.	09-16-2003	435/189

**FOREIGN PATENT DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>3</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				
JDS	2.	WO	00/28031	A2	Emory University	05/18/2000		
JDS	3.	WO	01/087957	A3	Emory University	11-22-2001		
JDS	4.	WO	02/081703	A2	Emory University	10-17-2002		

**OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
JDS	5.	Burdon, R.H., "Superoxide and hydrogen peroxide in relation to mammalian cell proliferation," Free Radical Biol. Med., Volume 18, No. 4, pp. 775-794 (1995).	
	6.	Cheng, G., et al., Gene, 269: pp. 131-140, May 16, 2001.	
	7.	Church, S.L., et al., "Increased manganese superoxide dismutase expression suppresses the malignant phenotype of human melanoma cells," Proc. Natl. Acad. Sci. USA, Volume 90, pp. 3113-3117 (1993).	
	8.	Edens, W., et al., "Tyrosine cross-linking of extracellular matrix is catalyzed by Duox, a multidomain oxidase/oxidoreductase with homology to the phagocyte oxidase subunit gp91phox," J. Cell Biol., 154(4): pp. 879-91, August 20, 2001.	
	9.	Fernandez-Pol, J.A., et al., "Correlation between the loss of the transformed phenotype and an increase in superoxide dismutase activity in a revertant subclone of sarcoma virus-infected mammalian cells," Can. Res., Volume 42, pp. 609-617 (1982).	
	10.	Fukui, T., et al., "p22phox mRNA expression and NADPH oxidase activity are increased in aortas from hypertensive rats," Circ. Res., Volume 80, No. 1, pp. 45-51 (1997).	
	11.	Griendling, K. K., et al., "Angiotensin II stimulates NADH and NADPH oxidase activity in cultured vascular smooth muscle cells," Circ. Res., Vol. 74, No. 6, pp. 1141-1148 (1994).	
	12.	Irani, K., et al., "Mitogenic signaling mediated by oxidants in ras-transformed fibroblasts," Science, Vol. 275, No. 5306, pp. 1649-1652 (1997).	
	13.	Lambeth, J. D., et al., "Novel homologs of gp91phox," Trends Biochem. Sci., (10): pp. 459-61, October 25, 2000.	
	14.	Li, Y., et al., "Validation of lucigenin (Bis-N-methylacridinium) as a chemiluminescent probe for detecting superoxide anion radical production by enzymatic and cellular systems," J. Biol. Chem., Vol. 273, No. 4, pp. 2015-2023 (1998).	
JDS	15.	Matsubara, T., et al., "Increased superoxide anion release from human endothelial cells in response to cytokines," J. Immun., Vol. 137, No. 10, pp. 3295-3298 (1986).	

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent document, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

J. Saidha

6/3/05

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

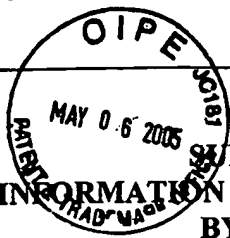
Substitute for Form 1449/A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>			
		Application Number	10/621,113		
		Filing Date	July 16, 2003		
		First Named Inventor	J. David Lambeth et al.		
		Group Art Unit	1614 1652		
Examiner Name	Unknown T. Saidha				
Sheet	2	of	2	Attorney Docket Number	43150/287577 (05501-0202)

**OTHER INFORMATION - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
JLB	16.	Meier, B., et al., "Human fibroblasts release reactive oxygen species in response to interleukin-1 or tumor necrosis factor- $\alpha$ ," Biochem. J., Vol. 263, No. 2, pp. 539-545 (1989).	
	17.	Pagano, P. J., et al., "Localization of a constitutively active, phagocyte-like NADPH oxidase in rabbit aortic adventitia: Enhancement by angiotensin II," Proc. Natl. Acad. Sci. USA, Volume 94, No. 26, pp. 14483-14488 (1997).	
	18.	Schmidt, K. N., et al., "The roles of hydrogen peroxide and superoxide as messengers in the activation of transcription factor NF- $\kappa$ B," Chem. & Biol., Vol. 2, No. 1, pp. 13-22 (1995).	
	19.	Schreck, R., et al., "Reactive oxygen intermediates as apparently widely used messengers in the activation of the NF- $\kappa$ B transcription factor and HIV-1," EMBO J., Vol. 10, No. 8, pp. 2247-2258 (1991).	
	20.	Sundaresan, M., et al., "Requirement for generation of H <sub>2</sub> O <sub>2</sub> for platelet-derived growth factor signal transduction," Science, Vol. 270, pp. 296-299 (1995).	
	21.	Szatrowski, T.P., et al., "Production of large amounts of hydrogen peroxide by human tumor cells," Canc. Res., Vol. 51, No. 3, pp. 794-798 (1991).	
	22.	Uhlinger, D.J., "Nucleoside triphosphate requirements for superoxide generation and phosphorylation in a cell-free system from human neutrophils," Vol. 266, No. 31, pp. 20990-20997 (1991).	
	23.	Ushio-Fukai M., et al., "p22 <sup>phox</sup> is a critical component of the superoxide-generating NADH/NADPH oxidase system and regulates angiotensin II-induced hypertrophy in vascular smooth muscle cells," J. Biol. Chem., Vol. 271, No. 38, pp. 23317-23321 (1996).	
	24.	Yan, T., et al., "Manganese-containing superoxide dismutase overexpression causes phenotypic reversion in SV40-transformed human lung fibroblasts," Canc. Res., Vol. 56, pp. 2864-2871 (1996).	
JLB	25.	Yu, L., et al., Biosynthesis of the phagocyte NADPH oxidase cytochrome b <sub>558</sub> ," J. Biol. Chem., Vol. 272, No. 43, pp. 27288-27294 (1997).	

Examiner Signature	<i>J. K. Swartz</i>	Date Considered	6/3/05
-----------------------	---------------------	--------------------	--------

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language translation is attached.



**SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Attorney Docket Number	6975-69498-03
Application Number	10/621,113
Filing Date	July 16, 2003
First Named Inventor	Lambeth
Art Unit	1652
Examiner Name	Tekchand

**U.S. PATENT DOCUMENTS**

Copies of U.S. Patent documents do not need to be provided, unless requested by the Patent and Trademark Office. For patents, provide the patent number and the issue date. For published U.S. applications, provide the publication number and the publication date. For unpublished pending patent applications, provide the application number and the filing date.

Examiner's Initials*	Cite No. (optional)	Number	Publication Date	Name of Applicant or Patentee

**FOREIGN PATENT DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	Country	Number	Publication Date	Name of Applicant or Patentee
JCS		PCT	WO01/75067	10/11/2001	HYSEQ, Inc.

**OTHER DOCUMENTS**

Examiner's Initials*	Cite No. (optional)	
JCS		CHENG, Guangjie et al., <i>Journal of Biological Chemistry</i> , Vol. 279, No. 6, Feb. 6, 2004, pp. 4737-4742.
		CHENG, Guangjie et al., <i>Journal of Biological Chemistry</i> , Vol. 279, No. 33, Aug. 13, 2004, pp. 34250-34255.
		GEISZT, Miklos et al., <i>Journal of Biological Chemistry</i> , Vol. 278, No. 22, May 30, 2003, pp. 20006-20012.
JCS		TAKEYA, Ryu et al., <i>Journal of Biological Chemistry</i> , Vol. 278, No. 27, July 4, 2003, pp. 25234-25246.

EXAMINER  
SIGNATURE:

T. Saidha

DATE  
CONSIDERED:

6/3/05

\* Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

